

## M 5.6, 14 km WSW of Tingloy, Philippines

Origin Time: 2020-10-04 18:16:53 UTC (Mon 02:16:53 local)  
Location: 13.6091° N 120.7488° E Depth: 121.0 km

Created: 3 weeks, 6 days after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

### Estimated Economic Losses

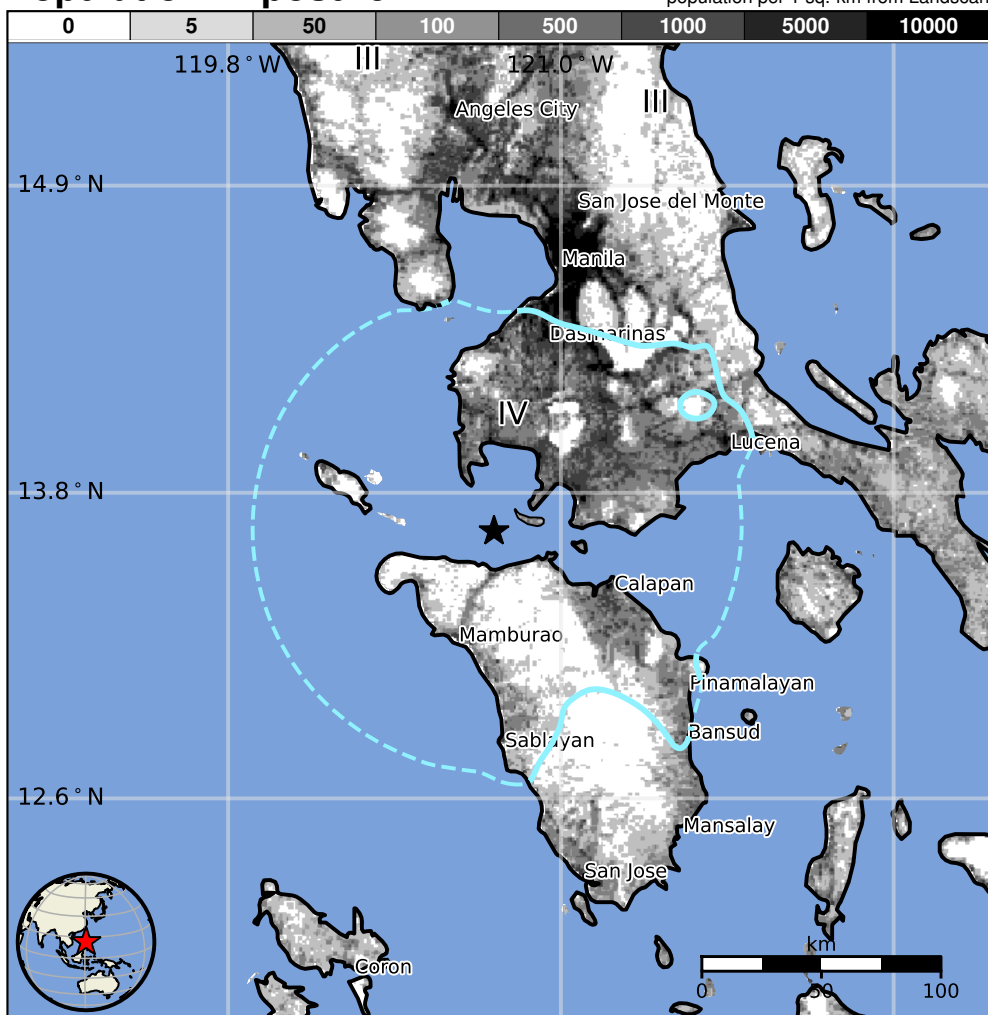


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	28,580k*	12,030k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1977-03-18	385	7.2	VII(520k)	1
1999-12-11	261	7.2	VIII(17k)	1
1990-07-16	239	7.7	IX(893k)	2k

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Lumil	3k
IV	Calaca	37k
IV	Malabag	7k
IV	Tranca	2k
IV	Calantas	3k
IV	Balite Segundo	7k
IV	<b>Calapan</b>	<b>66k</b>
IV	Calamba	317k
III	San Fernando	251k
III	<b>Manila</b>	<b>1,600k</b>
III	Quezon City	2,762k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000c514#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000c514